シクロデキストリン修飾体の選択的化学合成と選択的酵素分解

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Selective Synthesis and Enzymatic Degradation of Modified Cyclodextrins

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ABSTRACT The regioselective monosulfonylation of hydroxyl groups of α, β and γ-cyclodextrins, and its application to regioselective preparation of polysulfonylated cyclodextrins are reviewed. Enzymatic hydrolysis of the regioselectively sulfonylated cyclodextrins with Taka-amylase A gave maltooligosaccharides which were regioselectively modified. These are effective one-step methods for the preparstion of specifically activated (sulfonylated) oligosaccharides. Also, the importance of the subsites of the amylase in the interaction with oligosaccharides was evaluated as to the results of this Taka-amylolysis.

抄録 α，β，γ-シクロデキストリンの位置選択的モノスルホニル化，ポリスルホニル化について，またスルホニル化シクロデキストリンの酵素的分解による選択的修飾オリゴ糖の合成について総説している。